SIEMENS

Data sheet

Product type designation	RF250R reader ASCII
	SIMATIC RF200 Reader RF250R with RS232 interface (ASCII/Scanmode) without antenna IP65, -25 to +70 °C, 50x 50x 30 mm, can be operated with: ANT 1, 3, 3 NO, 8, 12, 18, 30

Suitability for operation	ISO 15693 transponder (MDS Dxxx), for connecting to PC and control systems (incl. Scan Mode)

Wireless frequencies	
Operating frequency / Rated value	13.56 MHz
Range / maximum	60 mm; Range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964
Protocol / with radio transmission	ISO 15693, ISO 18000-3
Transfer rate / with radio transmission / maximum	26.5 kbit/s
Product feature / multitag-capable	No

Electrical data	
Transfer rate / at the point-to-point connection / serial / maximum	115.2 kbit/s
Transmission time / for user data	
• for write access / per byte / typical	1.2 ms
• for read access / per byte / typical	1.2 ms

Interfaces	
Number of external antennas	1
Standard for interfaces / for communication	RS232

Type of electrical connection	
• for external antenna(s)	M8, 4-pin
• for communications interface	M12, 8-pin

Mechanical data

Material	PA6.6
Color	anthracite
Tightening torque / of the screw for securing the equipment / maximum	1.5 N·m
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm

Supply voltage, current consumption, power loss

Supply voltage	
• at DC / Rated value	24 V
• at DC	20.4 ... 28.8 V
Consumed current / at DC / at 24 V	
• typical	0.05 A

Permitted ambient conditions

Ambient temperature	
• during operation	-20 ... +70 °C
• during storage	-25 ... +80 °C
• during transport	-25 ... +80 °C
Protection class IP	IP65
Shock resistance	EN 60721-3-7, Class 7 M2
Shock acceleration	500 m/s²
Vibrational acceleration	200 m/s²

Design, dimensions and weight

Width	50 mm
Height	30 mm
Depth	50 mm
Net weight	0.06 kg
Mounting type	2 x M5 screws
Wire length	
• with RS 232 interface / maximum	30 m

Product properties, functions, components / general

Display version	3-color LED
Product feature / silicon-free	Yes

Standards, specifications, approvals

Certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
MTBF	430 y

Accessories

accessories	Various antennas are available

Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL

    https://support.industry.siemens.com/cs/ww/en/view/67384964

- to website: Industrial communication

    http://www.siemens.com/ident/rfid

- to website: Industry Mall

    https://mall.industry.siemens.com

- to website: Information and Download Center

    http://www.siemens.com/industry/infocenter

- to website: Image database

    http://automation.siemens.com/bilddb

- to website: CAx Download Manager

    http://www.siemens.com/cax

- to website: Industry Online Support

    https://support.industry.siemens.com

last modified: 12/19/2018